AMSAT News Service Weekly Bulletins
Issue: ANS-163
Date: 2022-06-12
Sources: amsat-ans-2022-ans-163-weekly-hyperkitty-73e492d4a5.txt

---

AMSAT NEWS SERVICE
ANS-163

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org.

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

In this edition:

* Call for Nominations - 2022 AMSAT Board of Directors Election
* 40th Annual AMSAT Space Symposium and General Meeting Announced for October 21 - 22, 2022
* AO-27 Telemetry and Reception Reports Requested
* AMSAT Announces Youth Initiative at Hamvention
* QCWA Presents AMSAT with $4,000 Contribution
* IARU Coordinates Three New Amateur Radio Satellite Projects
* ARISS News
* Upcoming Satellite Operations
* Hamfests, Conventions, Maker Faires, and Other Events
* Satellite Shorts From All Over

ANS-163 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2022 Jun 12

AMSAT solicits nominations for the 2022 AMSAT Board of Directors election, to be held in the third quarter of the year. The seats of the following three incumbent Directors expire in 2022 and will be filled by this year's election:

Mark Hammond, N8MH
Bruce Paige, KK5DO
Paul Stoetzer, N8HM

Further, up to two Alternate Directors may be elected for one-year terms.

A valid nomination for Director must be written and requires either one Member Society or five current individual members in good standing to nominate an AMSAT member. Written nominations, with the nominee's name, call sign, and contact information, as well as the nominators' names, call signs, and contact information, should be sent to the Acting AMSAT Secretary:

Paul Stoetzer, N8HM
201 I St SW Apt V336
Washington, DC 20024 USA

E-mail nominations may be sent to pstoetzer at amsat.org.

The AMSAT bylaws require that the nomination be written and in the form specified by the Secretary. The Acting Secretary has elected to accept written nomination materials via mail or in electronic form, including e-mail or electronic image of a paper document. Fax transmissions cannot be accepted.

No matter what means are used, petitions MUST be received by the Acting Secretary no later than June 15, 2022. The Acting Secretary will verify the qualifications of candidates and nominating members or Member Societies as petitions are received, and will notify candidates whether their nominations are in order by the end of June.

[ANS thanks Paul Stoetzer, N8HM, AMSAT Executive Vice President and Acting Secretary for the above information]

+=+=+=

"The AO-27 command team would greatly appreciate reception reports, especially with the time(s) telemetry or repeater operation started/ended. Please provide station location, 6 character grid square is sufficient. If you have AFSK reception/decode capability, any telemetry successfully decoded. Reports from northern stations able to copy the start or end of the ascending node on time are also sought.

"Please send reports to ks1g at amsat dot org."

[ANS thanks Stephan Greene, KS1G for the above information.]

+=+=+=

AMSAT satellites. Nicknamed "LOWER" (Lower Orbit Within Everyone's Reach" this family of satellites will feature higher power output to make reception by beginners an easy task. Educational payloads will be mainly based on store-and-forward imaging and digital messaging, an experience that youth are already comfortable with. And, of course, these satellites will host a combination of FM repeater and CW/SSB transponders for general Amateur Radio use.

Karnauskas concluded the presentation by saying, "The Youth Initiative is not only the right thing to do, it is the essential thing. By focusing on what our Articles of Incorporation direct us to do, advancing scientific and educational skills and knowledge, we appeal to a broader segment of society that can provide the financial support and critical resources that AMSAT needs to flourish."

[ANS thanks AMSAT for the above information.]

QCWA Presents AMSAT with $4,000 Contribution to Support Youth Initiative

AMSAT is pleased to announce that it received a generous $4,000 contribution from the Quarter Century Wireless Association (QCWA). Discussions for the contribution began in early May when Frank Karnauskas, N1UW, AMSAT VP, Development spoke with Ken Oelke, VE6AFO, QCWA President. The discussion centered on how plans for the AMSAT Youth Initiative were consistent with the QCWA's vision statement stating that it "develops resources to assist young Amateur Radio operators in furthering their education through the QCWA Scholarship Program."

Thanks to Mr. Oelke's help, the QCWA Board of Directors approved the AMSAT contribution. During a brief conversation at Dayton Hamvention, Karnauskas outlined how the QCWA contribution would be used to support the AMSAT Youth Initiative's online lessons programs and accompanying SDR ground stations.

In recognition of its generous contribution, the QCWA was inducted into the AMSAT 2022 President's Club at the Platinum level.

[ANS thanks AMSAT for the above information.]

IARU Coordinates Three New Amateur Radio Satellite Projects

The International Amateur Radio Union has added three projects to its list of coordinated satellite projects:

+ CAS-10
CAS-10 is an 8U CubeSat sponsored by the Chinese Amateur Satellite Group, CAMSAT. It will carry a V/U Mode Linear Transponder, a UHF - CW Telemetry Beacon, a UHF - AX.25 4.8k/9.6kbps GMSK Telemetry downlink and a space camera. The VHF uplink and UHF downlink linear transponder will have a bandwidth of 30kHz. The camera will store its pictures in the flash memory on the satellite. A simple DTMF-based remote control system will allow Amateur Radio operators to download the camera photos. The CW beacon will use Morse code to send satellite telemetry data. Launch is planned for November 2022 from Hainan Launch Center using a CZ-7 launch vehicle into a 400km circular 42.9 degree inclination orbit. The uplink is 145.870 MHz and the downlink is 435.180 MHz for VHF/UHF linear transponder. The UHF CW telemetry beacon is 435.575 MHz and the AX.25 telemetry is 435.725 MHz.

+ Binar 2,3,4,5,6 and 7
The Binar series of 1U CubeSats are sponsored by the Space Science and Technology Centre, Curtin University. They will include a UHF link for student activities and experiments. Operation of student payloads will take place from high schools with ground stations built by students. Packet store and forward will be available for general amateur engagement. The beacon will include basic satellite health data that amateurs can decode and report online. Experimental format transmissions in pursuit of efficient data packing is also planned. Beacon and telemetry will include OQPSK for 100 and 38.4kbps GFSK for 19.2, 9.6 and 1.2 kbps, plus intermittent CW. Deployments from the ISS are planned in the Q1 2023 for Binar 2,3 and 4. Deployment is planned in Q3 2023 for Binar 5,6 and 7. Downlinks are 437.700 MHz for BINAR 2, 437.850 MHz for BINAR 3, 437.925 MHz for BINAR 4, 437.750 MHz for BINAR 5, 437.850 MHz for BINAR 6 and 437.725 MHz for BINAR 7.

+ MRC-100

MRC-100 is a 3p PocketQube mission sponsored by the Budapest University of Technology and Economics. MRC-100 is the continuation of SMOG-P, SMOG-1 and ATL-1 spectrum monitoring PocketQube class satellites with wider monitored spectrum range 30MHz- 2600 MHz, focused on HAM, ISM and broadcasting bands. With MRC-100 the mission is able to measure the electromagnetic pollution not only on the broadcast bands, but on Ham, ISM and Wi-Fi bands. With the help of worldwide Amateur Radio stations receiving its spectrum monitoring data, the mission hopes to create a global electromagnetic pollution map. The UHF downlink on 436.720 MHz will use selectable data rates 1250, 2500, 5000, and 12500 bit/s with GMSK modulation. A RocketLab launch from New Zealand is planned for Q4 2022 into a 600km polar SSO.

More information on all three satellite programs can be found at http://www.amsat.org.uk/iaru/.

[ANS thanks the IARU for the above information.]

+=+=+=

K4DCA: plans to be in CN74 on June 24-29 too Hopefully they can raise the number on the heat map

WL7T: EL58 locked in for June 29, 30, and July 1. He plans to work 6 meters for the majority of the time with sat passes as requested. He is going to operate from a boat from around 9 AM to 5 PM each day.

W3IPA: DM42 vacation planned for July 30 to August 6. He will be on FM passes vacation style. He will be close to DM41 so he might be able to work a gridline. He will post more updates closer to that week!

KX9X & N9NCY Wild West Rove: Sean and Nancy will be on the road from July 1-25 while hiking in National Parks. They will travel through twelve states and over 50 grids, planning activation on FM and linear satellites. Extensive operation in Montana and North Dakota along the northern border (all the “8” grids). There will also be 6 meter and occasional HF POTA activity as well. Complete info on their trip can be found on their website https://www.wildwestrove.com/

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager, for the above information.]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

* 2022 Rocky Mountain ARRL Division Convention
  Friday, October 7, 2022 to Sunday, October 9, 2022
  Event Center at Archer
  3921 Archer Pkwy
  Cheyenne, Wyoming 82007
  https://wyhamcon.org/site

* JAMSAT Symposium
  June 25 from 9:50~17:15 JST (UTC +9 hours).
Anyone can participate. If you would like to participate, please email ja3nas at gmail.com to be informed of the opening URL. Please include your name, call sign and email address in your email.

* QO-100 User Meeting HAM RADIO 2022 in Friedrichshafen, Germany
  Saturday, June 25, 2022 starting at 7pm CEST
QO-100 users plan to meet at a restaurant near HAM RADIO on Saturday. Link to registration/reservation: https://nuudel.digitalcourage.de/gRajeEEUKrJLvXK9.

[ANS thanks Paul Overn, KE0PBR, AMSAT Events page manager, for the above information.]

Satellite Shorts From All Over

+ Hubble broke its own record, detecting an individual star 12.9 billion light-years away (paper). The (very Lord of the Rings-sounding) star "Earendel" existed when the Universe was just 900 million years old. (Around the same time that the Milky Way started to form.) It is only visible due to gravitational lensing. (ANS thanks The Orbital Index for the above information)

+ China's Shenzhou-14 crewed spacecraft docked with the Tianhe space station module early Sunday, June 5, marking the start of a crucial six-month-long mission. Also docked with the 16.6-meter-long, 4.2-meter-diameter Tianhe is the Tianzhou-4 cargo spacecraft, launched in May, containing supplies for the crew, along with propellant, science experiments and a number of CubeSats. The Shenzhou-14 mission will, crucially, manage the arrival of two new 20-metric-ton-plus modules to the space station, namely Wentian and Mengtian, in July and October respectively. There is speculation that the previously announced amateur radio equipment will be installed during this period. (ANS thanks SpaceNews for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Frank Karnauskas, N1UW
n1uw at amsat dot org